

Claims

1. (Currently Amended) A method of setting a printing parameter for a first print medium, ~~media, the method~~ comprising:

obtaining an identifier of the first print medium ~~media~~;

locating a remote database containing the identifier of the first print medium, a first print medium black point and a first print medium white point ~~media and a property of the print media~~;

downloading the first print medium black point and the first print medium white point ~~property of the print media~~; and

utilizing the ~~property of the print media to set the printing parameter.~~

locating an existing color profile in the remote database, the existing color profile being based on a second print medium and a printer that is similar to an intended printer;

determining a black point difference between a second print medium black point of the second print medium and the first print medium black point;

determining a white point difference between a second print medium white point of the second print medium and the second print medium white point;

determining a total difference between the second print medium and the first print medium by adding the black point difference and the white point difference;

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Attorney Docket Number: 177744.01

Filed: 12/21/2001

selecting the existing color profile to be a best match color profile based on the total difference;

calculating a translated color profile by translating a best match print medium black point and a best match print medium white point of a best match print medium of the best match color profile; and

calculating a new color profile by replacing the best match print medium black point with the first print medium black point, and replacing the best match print medium white point with the first print medium white point.

2. (Original) The method of claim 1 wherein the obtaining the identifier is performed by a printer.

3. (Original) The method of claim 1 wherein the obtaining the identifier includes obtaining a type of the identifier.

4. – 9. (Canceled)

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10. (Currently Amended) The method of claim 1 [[9]] wherein the selecting the existing color profile is further based on selection factors further comprise the black point difference.

11. (Currently Amended) The method of claim 1 [[9]] wherein the determining the total difference further comprises weighting the black point difference greater than the white point difference.

12. (Currently Amended) The method of claim 1 [[9]], wherein: ~~wherein the property of the print media further comprises a print media tone curve, the method further comprising determining a tone curve difference between a second media tone curve of the second media and the print media tone curve; and wherein the selection factors further comprise the tone curve difference.~~

the remote database further comprises a first print medium tone curve;

the method further comprises determining a tone curve difference between a second print medium tone curve of the second print medium and the first print medium tone curve; and

the selecting the existing color profile is further based on the tone curve difference.

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13. (Currently Amended) The method of claim 12, wherein:
the first print medium media tone curve further comprises a first print medium media base color tone curve; and wherein
the tone curve difference is a sum of $[[a]]$ base color tone curve differences difference of each base color of the intended printer, the base color tone curve differences difference being between a second print medium media base color tone curve of the second print medium media and the first print medium media base color tone curve.

14. (Currently Amended) The method of claim 1 [[9]], wherein the calculating a translated color profile further translating the property of the best match print media comprises:

calculating a difference vector comprising a difference between the property of the best match print medium black point media and the property of the first print medium black point, and between the best match print medium white point and the first print medium white point; media;

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and

adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

15. – 21. (Canceled)

22. (Currently Amended) One or more [[A]] computer-readable media ~~medium~~ having ~~computer-executable~~ executable instructions stored thereon that, when executed, implement the following method for deriving a new color profile for a first print medium ~~media~~ used in an intended printer; ~~printer, the computer-executable instructions performing steps comprising:~~

locating a ~~second~~ an existing color profile, wherein the existing ~~second~~ color profile is based on a second print medium ~~media~~ and a second ~~similar~~ printer that is similar to the intended printer;

determining a black point difference between a second print medium ~~media~~ black point of the second print medium ~~media~~ and a first print medium ~~media~~ black point of the first print medium ~~media~~;

determining a white point difference between a second print medium ~~media~~ white point of the second print medium ~~media~~ and a first print medium ~~media~~ white point of the first print medium ~~media~~;

determining a total difference between the second print medium ~~media~~ and the first print medium ~~media~~, wherein the ~~determining the total difference comprises by~~ adding the black point difference and the white point difference;

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selecting the existing second color profile to be a best match color profile based on selection factors that include ~~comprising~~; the total difference between the second print medium media and the first print media medium;

calculating a translated color profile by ~~wherein the calculating comprises~~ translating a property of a best match print medium media of the best match color profile; and

calculating the new color profile by ~~wherein the calculating comprises~~ replacing a property of the best match print medium ~~media~~ with a property of the first print ~~media medium~~.

23. (Currently Amended) The computer-readable medium of claim 22 wherein the step of determining the total difference further comprises ~~the step of~~ weighting the black point difference greater than the white point difference.

24. (Currently Amended) The computer-readable medium of claim 22, ~~wherein the steps further comprising~~ comprise determining a tone curve difference between a second print medium media tone curve of the second print medium media and a first print medium media tone curve of the first print medium, media; and wherein the selection factors further include ~~comprise~~ the tone curve difference.

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25. (Currently Amended) The computer-readable medium of claim 24 wherein the tone curve difference is a sum of ~~[[a]]~~ base color tone curve differences ~~difference~~ of each base color of the intended ~~printer~~; wherein printer, the base color tone curve difference being ~~[[is]]~~ between a second print medium ~~media~~ base color tone curve of the second print medium ~~media~~ and a first print medium ~~media~~ base color tone curve of the first print ~~media~~ medium.

26. (Currently Amended) The computer-readable medium of claim 22, wherein the calculating a translated color profile further comprises: translating the ~~property of the best match print media comprises:~~

calculating a difference vector that is ~~comprising~~ a difference between the property of the best match print medium ~~media~~ and the property of the first print ~~media~~ medium;

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and

adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

27. (Currently Amended) The computer-readable medium of claim 22 ~~[[23]]~~, wherein the locating the existing ~~second~~ color profile further comprises ~~includes~~

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searching a database of print media and print media properties corresponding thereto.
~~properties.~~

28. (Currently Amended) A system for setting a printing parameter for a first print medium ~~print media~~, the system comprising:

a database that stores ~~comprising~~ an identifier of the first print medium, a first print medium black point and a first print medium white point ~~print media and a~~
~~property of the print media~~; and

a program comprising computer-executable instructions that, when executed,
implement the following steps ~~[[for]]~~:

obtaining an identifier of the first print medium; ~~print media~~;

locating the database;

downloading the first print medium black point and the first print
medium white point ~~property of the print media~~; and

~~utilizing the property of the print media to set the printing parameter.~~

locating an existing color profile in the database, the existing color
profile being based on a second print medium and a second printer that is
similar to the intended printer;

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determining a black point difference between a second print medium
black point of the second print medium and a first print medium black point of
the first print medium;

determining a white point difference between a second print medium
white point of the second print medium and a first print medium white point of
the first print medium;

determining a total difference between the second print medium and the
first print medium by adding the block point difference to the white point
difference;

selecting the existing color profile to be a best match color profile based
on selection factors that include the total difference between the second print
medium and the first print medium;

calculating a translated color profile by translating a property of a best
match print medium of the best match color profile; and

calculating a new color profile by replacing a property of the best match
print medium with the property of the first print medium.

29. (Currently Amended) The system of claim 28 further comprising a printer,
wherein the printer further comprises a sensor for obtaining the identifier of the first
print media medium.

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30. (Original) The system of claim 28 wherein the obtaining the identifier includes obtaining a type of the identifier.

31. – 36. (Canceled)

37. (Currently Amended) The system of claim 28 [[36]] wherein the determining the total difference further comprises weighting the black point difference greater than the white point difference.

38. (Currently Amended) The system of claim 28 [[36]] further comprising determining a tone curve difference between a second print medium ~~media~~ tone curve of the second print medium ~~media~~ and a first print medium ~~print media~~ tone curve of the first print medium, ~~print media~~; and wherein the selection factors further include ~~comprise~~ the tone curve difference.

39. (Currently Amended) The system of claim 28 [[36]] wherein the tone curve difference is a sum of a base color tone curve differences ~~difference~~ of each base color of the intended printer, ~~wherein~~ the base color tone curve difference being ~~being~~ ~~[[is]]~~ between a second print medium ~~media~~ base color tone curve of the second print

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~~medium media~~ and a ~~first print medium print media~~ base color tone curve of the ~~first print medium. print media.~~

40. (Currently Amended) The system of claim ~~28~~ [[36]], wherein the ~~calculating a translated color profile further comprises: translating the property of the best match print media comprises:~~

calculating a difference vector that is ~~comprising~~ a difference between the property of the best match print medium ~~media~~ and the property of the ~~first print medium; print media;~~

interpolating and extrapolating the difference vector to a dimension of a lookup table tag of the best match color profile; and

adding the interpolated and extrapolated difference vector to the lookup table tag of the best match color profile.

41. – 43. (Canceled)